

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): A high frequency heating apparatus in that a microwave of 5.8 GHz is irradiated to an object in a heating chamber in order to heat the object[[:]], the high frequency heating apparatus comprises:

~~wherein a plurality of pieces of wave guides having feeding ports for emitting the microwave are mounted to a cavity partitioning the heating chamber~~

a microwave generating device for generating the microwave of 5.8 GHz;

a cavity partitioning the heating chamber;

a plurality of pieces of wave guides mounted to the cavity; and

a plurality of feeding ports for emitting the microwave and mounted to the wave guides.

Claim 2 (Original): The high frequency heating apparatus according to claim 1, wherein a wall face of the cavity arranged with the feeding port is constituted by upper and lower faces, or the upper face and a side face, or the side face and the lower face of the heating chamber.

Claim 3 (Original): The high frequency heating apparatus according to claim 1, wherein two pieces of the feeding ports are provided to the upper face of the heating chamber by at least two pieces of the wave guides arranged at an upper wall of the cavity.

Claim 4 (Original): The high frequency heating apparatus according to Claim 3, wherein the at least two pieces of wave guides at the upper wall of the cavity are arranged vertically to direct long sides of cross-sectional faces of the wave guides in an up and down direction.

Claim 5 (Original): The high frequency heating apparatus according to Claim 4, wherein a face heater is arranged at a region of the upper wall of the cavity excluding a region of mounting the wave guides arranged vertically.

Claim 6 (Original): A high frequency heating apparatus comprising:
a high frequency generating portion; and
a heating chamber constituted by a ceiling, a side wall and a floor portion for heating to process a heated object by applying a high frequency wave from the high frequency generating portion;
wherein a wide range wave guide in a shape of a parallelepiped constituted by including a number of feeding ports is provided on a rear side of the heating chamber, and
the high frequency generating portion is provided at immediate proximity of the wide range wave guide of the shape of the parallelepiped.

Claim 7 (Original): The high frequency heating apparatus according to Claim 6, wherein the wide range wave guide in the shape of the parallelepiped is constituted by a size widened substantially over an entire face of the floor portion and the number

of feeding ports are provided on a rear side of the floor portion to direct to a side of the floor portion.

Claim 8 (Original): The high frequency heating apparatus according to Claim 6, wherein the wide range wave guide in the shape of the parallelepiped is constituted by a size widened substantially over an entire face of the ceiling and the number of feeding ports are provided on a rear side of the ceiling to direct to a side of the ceiling.

Claim 9 (Original): The high frequency heating apparatus according to any one of Claims 6 through 8, wherein a frequency of the high frequency wave supplied from the high frequency generating portion is 5.8 GHz.

Claim 10 (Previously presented): The high frequency heating apparatus according to claim 6, wherein sizes of the number of pieces of feeding ports are smaller at a vicinity of the high frequency generating portion and the remoter from the high frequency generating portion, the larger the sizes.

Claims 11-21 (Cancelled):